MARCONI TELLS OF HOPES TO BRIDGE CHASM OF THE SKIES IN TALK WITH OTHER WORLDS

Possibility of Interplanetary Communication Affirmed by Wireless Wizard. Now Conducting Experiments in New York Harbor on Board Famous Electric Yacht

LANGUAGE OF THE WORLDS MUST BE WORKED OUT ON NUMERICAL BASIS

"Father of Wireless" Soon to Begin Experiments off the Coast in an Effort to Flash Radio Message Around the Globe

A LEXANDER THE GREAT longed in vain for new worlds to conquer. A flight of fancy, that, but it has captivated the minds of man down Is the world of today approaching an era when the modern magic of

radio science will conquer the immensities of space? Will man eventually be able to tap the knowledge and wisdom of

muals or superiors of the human race? Guglielmo Marconi, "Father of the Wireless," says that this stu-

dous concept is not an impossibility. Marconi is now in this country, aking his headquarters on the That is a forward step of tremendous cean-going yacht Elettra, the significance. "floating capital" of the wireless

The Elettra is anchored in the New York City, riding at ease near e Columbia Yacht Club.

Italy drooping from the stern, the ped the telegraph lines. server notes the criss-cross of ntennae from the mastheads. An nmodation ladder drops overside for the convenience of arriving and departing guests of the great waltzing near the earth, at least as near

the yacht, generally sequestered signals from the ruddy planet. one of its two wireless rooms, the arger of which is on the main deck. is instruments to catch broadcasts

England is the inventor's "second | "I can't say that I am listening for "the tight little isle."

Marconi Found Busy on Customs Report

ith a customs declaration, when he agreed to divulge some of his impres- immeasurable space. sions about the present and the future of the science in which he won emi-

He wore a dark blue serge suit and white yacht cap with the royal crown Italy embroidered above the peak. He is tall and muscular and inclined to portliness. His face is virtually unined and his complexion is light for one his race, probably an inheritance is inhabited. m his Irish mother.

Naturally, from the years he has passed in England. Marconi has a seile command of English. One notes verse. he broad a's that seem to have been ormed in London drawing rooms. His manner is quiet and somewhat reserved. with absolutely no trace of "side" or one plus one are not two everywhere.

He led the way to the wireless room

The main wireless room is a maze he rap-rap of high-frequency commer- guage." tal messages, a medley of broadcasts Marconi was willing for the moment

Recalls Early Days of Radio Development

As he sat there, with a receiving set omentarily adjusted, Marconi's memory leaped back to the day when a wireess spark carried his first message. "It was only as far as from there to

sere," he said, indicating the pasageway and his chair, a distance of From that recollection of the birth subject.

radio, more than twenty years ago, arconi's mind came back to the presrashing its messages over seas and out to sea

"The next improvement in wireless, said, as he slipped off the headece, "is the sending of private mescars of the persons they are meant for, America." Marconi remarked, as he and no one clse.

aid. He stepped to an open porthole "More persons in the United States

over there," he went on, "and no one developments should result."

other planets, assuming some of them to be inhabited by the intellectual

"No," he continued, "I am not disclosing just now how I accomplish it.

I simply say I can do it." North River, off Eighty-sixth street, brought up the question of the sub-The possibilities of this invention marine cable's fate.

"I have been quoted as saying that From the shore, after the eye wireless would supplant the cable takes in the graceful lines of the lines." Marcont went on. "I did not \$1,000,000 craft, with the flag of say that. The telephone has not scrap-

"Each has its own function. So, I believe, it will be with wireless and the cables. If the cables are supplanted, that event will be far in the future."

It was suggested that with Mars as it ever does in the great dance of Marconi spends most of his time the universe, the radio might pick up

While cruising on the Electra in the Mediterranean last year Marconi caught There he listens-in, usually tuning strange sounds with a wave length of 150,000 meters. These sounds were not regarded as of earthly origin and are still a mystery.

ome," and he admits a deep interest | messages from Mars." Marconi said. messages flashed from "I do not say that it is possible to tall to Mars or any other planet. I do not say that it is impossible.

"There is so much yet to be learned about radio communication. The ether waves may be everlasting as far as we Marconi was in the after cabin, busy know. There is apparently no reason why they cannot go on radiating through

Not an Impossibility

"It may some day be possible to communicate with intelligent beings on another planet-assuming, of course, that at least one of the other planets

"A key to interplanetary communication might be given by mathematical relationships. These relationships, we may say, hold true through the uni-

Marconi paused for a moment. He may have been thinking of some Einstein with disturbing declarations that

"Assuming that we could flash messages to another world," he resumed, n the main deck, separated by a nar- "the next difficulty would be in u.akow passageway from a spacious dining ing ourselves understood. Conversely, From this passage rises a even if messages came to us from ancompanionway giving access to the other planet, they would be a meaningless jumble without a common key.

"By repeating over and over again dials, switchboards, levers, sending the fact that one plus one equals two teys and receiving sets. In one corner, it might eventually be possible to crepear the door, is a little flat desk with ate common symbols between ourselves cratch pads and an ordinary telephone. and beings millions of miles away. We On the starboard side is the compact can let our fancy soar then to the gradtable at which Marconi sits and hears ual development of a cosmic lan-

from the four quarters of the globe, and to let his thought range through the harmonies as though Ariel had turned vast reaches of interstellar space. It susician and was flooding space with was another matter when the spirit world was mentioned.

A. Conan Doyle, Sir Oliver Lodge and other psychics have toyed with the idea that spirits might bridge the gap between this world and the spirit planes

"Do you believe spirits might talk

to men by radio?" Marconi smiled slightly and gave an almost imperceptible shrug of his shoulders. He waved his hand to indicate his unwillingness to discuss the

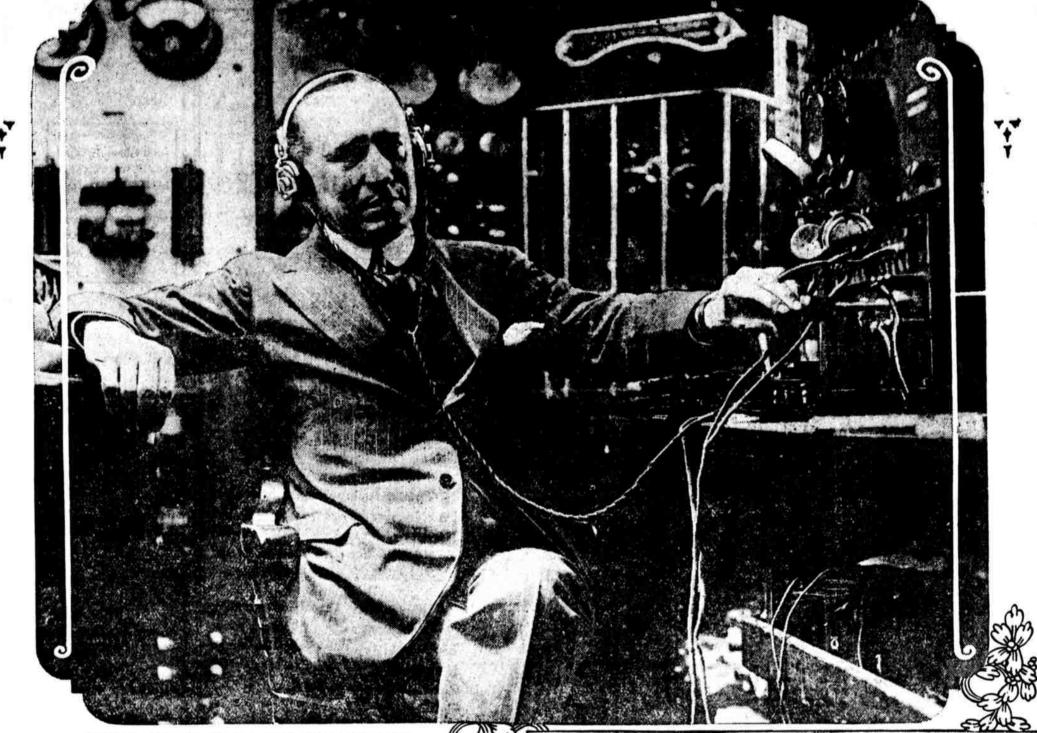
The inventor took up his receiving set again. It was so tuned that it capit, with the lusty giant of the wireless tured an orchestral melody streaming

Greatest Wireless Progress Has Occurred in America

"Twenty years ago I said wireless ages, messages that will reach the would have its greatest development in arose again and walked toward the "I have solved the problem," he door, "That prediction has come true,

and pointed to the wooded heights of are interested in wireless than in any New Jersey, bathed in the June sun- other country of the world today. When so many minds are engaged on a sub-"I can talk by wireless to a man ject, it is only natural that surprising

New Tork can hear what is said. As a parting word, he said he would



Guglielino Marconi, "Father of the Wireless," at the switchboard in his radioroom aboard his famous experimental yacht "Elettra"

Messages to Other Worlds Long Dream of Scientists

The idea of communicating with other planets has long fascinated grave scientists bent on solving some of the riddles of the universe. the Sahara desert, or at some point in this country, so super-flashes

Dr. Charles P. Steinmetz, electrical wizard, who recently produced an artificial lightning bolt, estimated that towers 1,000 feet high would have to be built to send a wireless message to Mars.

As an alternative for the towers, which might prove difficult to build, Dr. Steinmetz suggested metal balloons filled with helium gas

If a radio message could be projected to Mars it would reach there in about 4 minutes and 22 seconds when the planet is nearest the earth and in about 22 minutes when Mars is farthest away.



"The Wizard of Wireless" on the bridge with Captain Lauro Raffaele, skipper of the "Elettra"



One suggestion was the placing of giant heliographic mirrors in of light might be "winked" into space.

Preston B. Bassett, a research engineer, recently proposed the flashing of light signals from 120 high intensity searchlights of 1,000,000,000 candlepower and their concentration into a single beam of 120,000,000,000 candlepower which, he said, could easily be read

and sent up several thousand feet.

The speedy power tender of the "Elettra," with the flag of Italy at the stern, about to take the inventor to the Island of Manhattan from the anchorage in the Hudson

an effor, to flash a message around the that the olds favored man against the world. He also remarked that he was ocean tempest. going to lecture on some of his latest Wireless Has Reduced

The man before whose necromancy the Perils of the Sea retired to his cabin to resume work on man's safety at sea. And on the upper seen a child with so defective a memhis experimental notes. Out toward the stern, a dozen bare- sat the man who had done more than

footed sailors were washing the deck, any other to make radio a marvelous Marconi Showed Early Sun-bronzed Sicilians, Neapolitans and reality. Genoese, they were scrubbing the One of his newest inventions is that planks which were being sluiged with of a device which might be called a nary subjects that are crammed into a water drawn in buckets from the river, radio lighthouse by means of which how of his age, he developed an abid-The sight of the dark-haired, bare- radio waves can be sent in a given di- ing interest in electricity. armed and bare-footed seamen conjured rection in a beam, instead of being He made his first wireless experi-

leys in the days of Imperial Rome. In those far-distant days the boats be possible for ships in foggy weather found that a wireless message sent beof commerce, and the long boats to learn the bearing and position of tween stations on level ground was of war alike scudded to harbor when the "lighthouse." This invention, he also recorded on a receiver placed on most impossible during the winter guarding of navigation.

months.

and his second wife, who was Anna
Jameson, an Irish girl.

It is interesting to note in this con
One of the proudest moments in Marconi's career came in 1992, when he submitted to the Czar of Russia and the King of Italy wireless messages he re-

burt of the war?

Middle Ages.

nection that the great inventor's Will also was an Irish girl, the Hon. Bea. Alberta during a voyage from England also was an Irish girl, the Hon. Governor to Kronstadt harbor. trice O'Brien, daughter of the four. Early in 1903 he sent a message from teenth Baron Inchiquin, whose and the President of the United States to cestry is traced back to Brian Borothme, the King of England, thus inaugurating through his third son, Dermot, King of Mass, and Cornwall. Munster in the twelfth century. Mar-coni and the Hon. Beatrice O'Brien were married in 1905 in St. George's, Wireless Company of America and other projects, together with the gradual ex-Hanover Square, London.

Marconi in Florence expressed aston- various classes. ishment at the genius Marconi has dis-

inid. "that the little Englishman, as we used to call him, because of his slight figure and sedate manner, would Physical and mental vigor. turn out a genius? He was always played a commanding part in the radio soon begin experiments off the coast in and it was not until the age of steam a model of good behavior, but there the radio of today, and now he is turnwere no signs of mental brilliance.

"I am afraid he got many severe morrow, spinckings, but he took them like an angel. At that time he never could learn anything by heart. It was imven the tradition of Merlin pales, then | I, was left to the wireless to increase possible, I used to think. I had never deck, as the sailors scrubbed the lower, ory.

Interest in Electricity

But if his mind limped on the ordi-

up a picture of the rolling Mediter- scattered to all points of the compass, ment on his father's estate at Bologna. ranean, sudded with many-cared gal- By using a revolving beam of elec- when sixteen years old. Two years trical radiation, Marconi says it will later he made his first discovery. He a storm impended. Navigation was al- believes, is another step in the safe- the other side of a large hill.

From then onward his progress was And what of the early environment so rapid that when twenty-one years Even the development of the sail did and the studies of this forty-eight-year- old he went to London to demonstrate not lessen the terrors of a storm at sea, old genius who is a Senator of the the practical value of his experiments.

Tinkers With Wireless on Ex-Archduke's Yacht

THE yacht Elettra, Marcont's floating headquarters, once was owned by an Austrian Archduke, a cousin of the late Emperor Franz Joseph.

It was interned in England when the war began and was acquired by the inventor three years ago. It has a crew of thirty, including officers.

In a private laboratory on the yacht Marconi carries on many of his experiments. The vessel also has two wireless rooms, the larger on the main deck.

From this vessel the inventor plans to send a radio message around the world in the near future. The longest messages now are those between England and Australia.

He conducted his tests before representatives of the British army and navy, the general postoffice and light-

Marconi was twenty-five years old when he sent his first message across the English Channel. The French Government was interested in his inventions and that trans-channel achievement convinced official France of their practicability.

The inventor's mind then turned toward the problem of sending messages across the ocean. He spent two years in study and experiment and then, on December 6, 1901, he landed at St. John's, Newfoundland, to receive messages from the other side.

Six days later came the great test. For a half hour Marconi and his two assistants sat with receivers ready. Then a sharp click of the tapper was heard. It was the signal that something was coming. A moment later

Marconi's million-dollar wireless yacht "Elettra," in which he came recently to this country. He is conducting an elaborate series of experiments with a view to sending radio messages around the world

> Kingdom of Italy and was High Com- came three little clicks-the letter "S" missioner to the United States during -tapped out in Poldhu, Cornwall,

Trans-Atlantic Radio He was born April 24, 1874, in a Established in 1902 little house adjoining the Marescalchi Palace, one of the famous princely res-

In 1902 Marconi saw trans-Atlantic idences of Bologna, Italy, which is the communication firmly established, and seat of a university dating back to the in 1904 the great liners of that day began a daily news service with bulletins He was the son of Joseph Marconi wirelessed from land stations.

nection that the great inventor's wife ceived on boatd the Italian cruiser Carlo

As a schoolboy, Marconi did not attract attention for precociousness. Some phere is so crowded with messages that years ago a schoolmistress who taught plans are contemplated for a radio-contension of wireless communication down trol system establishing wave lengths for

Marconi is one of the few men in e world who have seen their special-"Who would have thought," she ties start from a trifling beginning and reach the high scale of accomplishment

that wireless has reached today.

The inventor is still in the prime of ing confidently to a yet greater to-

Marconi's Life Marked By Progress in Radio

MARCONI made his first wire-less experiments in 1890

when sixteen years old. At twenty-one his discoveries were so important that he gave demonstrations in England be-

fore Government representatives. When he was twenty-five he sent his first message across the English channel.

On December 12, 1901, when

twenty-seven years old, he heard the first message flashed across the Atlantic ocean by his system, In 1904 Marconi established a daily news service by radio on Cunard liners.